Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A method, comprising:

receiving an instruction to adjust an [[the]] output power of a power amplifier;

powering on or off at least one branch of the power amplifier according to the received instruction to enable a logarithmic change in the output power of the power amplifier; and

amplifying a signal according to the adjusted output power,

wherein the instruction specifies at least one of a percentage change in power and a decibel (dB) change in power.

- 2. (Original) The method of claim 1, further comprising transmitting the amplified signal.
- 3-4. (Cancelled).
- 5. (Currently Amended) The method of claim 1, wherein the powering on or off of a branch changes the output power of the power amplifier of the power amplifier linearly in dB changes the output power of the amplifier.
- 6. (Currently Amended) The method of claim 1, wherein thermometer coded power control words are used to power on and off branches of the <u>power</u> amplifier.

- 7. (Original) The method of claim 6, wherein the thermometer coded power control words ensure monotonic power control.
- 8. (Currently Amended) A system, comprising:

means for receiving an instruction to adjust <u>an</u> [[the]] output power of <u>a</u> power amplifier;

means for powering on or off at least one branch of the power amplifier according to the received instruction to enable a logarithmic change in output power; and means for amplifying a signal according to the adjusted output power,

wherein the instruction specifies at least one of a percentage change in power and a decibel (dB) change in power.

- 9. (Currently Amended) A system comprising:
- a receiving engine capable of receiving an instruction to adjust an [[the]] output power of a power amplifier; and
- a determining engine, communicatively coupled to the receiving engine, capable of determining how many branches of a power amplifier to power on or off according to the received instruction to enable a logarithmic change in output power; and
- a power amplifier engine, communicatively coupled to the determining engine and the power amplifier, capable of transmitting the determination to the power amplifier,

wherein the instruction specifies at least one of a percentage change in power and a decibel (dB) change in power.

10-11. (Cancelled).

- 12. (Currently Amended) The system of claim 9, wherein powering on or off a branch changes the output power of the power amplifier of the power amplifier linearly changes in dB the output power of the amplifier.
- 13. (Original) The system of claim 9, wherein the power amplifier engine uses thermometer coded power control words to power on and off branches of the amplifier.
- 14. (Original) The system of claim 13, wherein the thermometer coded power control words ensure monotonic power control.
- 15. (Original) A power amplifier, comprising:
 - a plurality of branches for controlling transistors; and
- a plurality of transistors, each transistor being communicatively coupled to a branch of the plurality of branches,

wherein the transistors are arranged in a logarithmic scale, thereby enabling a logarithmic change in output power with the powering on or off of a transistor.

16. (Currently Amended) The power amplifier of claim 15, wherein the powering on or

off of a branch in the plurality of branches changes the output power of the power amplifier of the power amplifier linearly in decibel [[dB]] changes the output power of the amplifier.

17. (Original) A transmitter comprising a power amplifier according to claim 15.